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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/518,749	12/22/2004	Takashi Nakayama	1422-0651PUS1	3018	
2292 7590 04/12/2007 BIRCH STEWART KOLASCH & BIRCH PO BOX 747			EXAMINER		
			SGAGIAS, MAGDALENE K		
FALLS CHURC	H, VA 22040-0747	'	ART UNIT	PAPER NUMBER	
			1632		
		<u> </u>			
SHORTENED STATUTORY	PERIOD OF RESPONSE	NOTIFICATION DATE	DELIVER	DELIVERY MODE	
31 DA	YS	04/12/2007	ELECTRONIC		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Notice of this Office communication was sent electronically on the above-indicated "Notification Date" and has a shortened statutory period for reply of 31 DAYS from 04/12/2007.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mailroom@bskb.com

	Application No.	Applicant(s)					
Office Astinus Occurrence	10/518,749	NAKAYAMA ET AL.					
Office Action Summary	Examiner	Art Unit					
	Magdalene K. Sgagias	1632					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim till apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. sely filed the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1)⊠ Responsive to communication(s) filed on 11 De	ecember 2006.						
	action is non-final.						
· <u> </u>	_						
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>1-19</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6) Claim(s) is/are rejected.							
7) Claim(s) is/are objected to.	· · · · · · · · · · · · · · · · · · ·						
8) Claim(s) 1-19 are subject to restriction and/or e	election requirement.	·					
Application Papers	• .						
		• •					
9) The specification is objected to by the Examiner	•	Evaminor					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
<u> </u>	priority under 35 H.S.C. & 110(a)	y-(d) or (f)					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the prior							
application from the International Bureau	(PCT Rule 17.2(a)).	-					
* See the attached detailed Office action for a list of	of the certified copies not receive	ed.					
•							
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summary						
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal P						
Paper No(s)/Mail Date	6) Other:	· ***					

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DETAILED ACTION

Claims 1-19 are pending.

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions, which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-3, 10-14, and 17, drawn to a method for producing a substantially isolated neural cell, characterized in that the method comprises carrying out the suspension culture of embryonic stem cells in the presence of an astrocyte conditioned medium or ingredients substantially equivalent to the conditioned medium, thereby obtaining <u>a neuron</u>.

Group II, claim(s) 1, 4-9, 15-16 and 18, drawn to a method for producing a substantially isolated neural cell, characterized in that the method comprises carrying out the suspension culture of embryonic stem cells in the presence of an astrocyte conditioned medium or ingredients substantially equivalent to the conditioned medium, thereby obtaining a glial cell.

Group III, claim(s) 1, 8, 9, 19, drawn to a method for treating a neurodegenerative disease or nervous damage, characterized in that the method comprises introducing into a neurodegenerative site or a nervous damage site at least one cell selected from the group consisting of a substantially isolated neural stem cell, a substantially isolated neuron and a substantially isolated glial cell.

The inventions listed as Groups I-II do not relate to a single general inventive concept under Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The technical feature linking the inventions of Groups I-III is a substantially isolated neural cell, characterized in that the method comprises carrying out the suspension culture of embryonic stem cells in the presence of an astrocyte conditioned medium or ingredients substantially equivalent to the conditioned medium. **Arnhold et al**, (J Neurosurg, 93(6): 1026-1032, 2000) also teaches a method for producing a substantially isolated neural cell by cultivting mouse ESCs in suspension in the presence of an astrocyte-conditoned serum free medium

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supplemented with insulin, transferrin, selene chloride and fibronectin as differentiation factors (p 1027, columns 1-2, under materials and methods section). Therefore the instant technical feature of Groups I-III does not make a contribution over the prior art.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement is traversed (37 CFR 1.143).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Magdalene K. Sgagias whose telephone number is (571) 272-3305. The examiner can normally be reached on Monday through Friday from 9:00 am to 5:00 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Paras, Jr., can be reached on (571) 272-4517. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll free).

Magdalene K. Sgagias, Ph.D. Art Unit 1632

DEBORAH CROUCH
PRIMARY EXAMINER
GROUP 1997